

Supplementary Information for

- Ancillary Data for Co-citations In Context
- James R. Bradley, Sitaram Devarakonda, Avon Davey, Dmitriy Korobskiy, Siyu Liu, Tandy Warnow, George Chacko
- 5 George Chacko.
- 6 E-mail: netelabs@nete.com
- 7 This PDF file includes:
- 8 Supplementary text
- 9 Tables S1 to S2

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11	This document contains the ancillary data that is referred to in the article Co-citations In Context.							

Table S1. Hit Rates By Category

Data		Highly Cited				
Set	Year	Min. Percentile	LNLC	LNHC	HNLC	HNHC
Immunology	1985	1%	0.0	0.8	0.6	1.5
Immunology	1985	2%	0.0	1.8	1.1	3.0
Immunology	1985	5%	1.0	3.5	3.2	7.3
Immunology	1985	10%	2.0	7.0	7.1	14.1
Immunology	1995	1%	0.0	1.4	0.5	1.6
Immunology	1995	2%	0.0	2.3	1.0	3.0
Immunology	1995	5%	0.0	4.4	3.2	7.2
Immunology	1995	10%	0.0	7.8	7.5	13.3
Immunology	2005	1%	0.0	0.6	0.6	1.5
Immunology	2005	2%	0.0	1.1	1.3	2.8
Immunology	2005	5%	0.0	3.0	3.5	6.8
Immunology	2005	10%	1.9	6.4	8.0	12.8
Metabolism	1985	1%	0.0	1.0	0.5	1.6
Metabolism	1985	2%	0.0	2.0	1.2	3.0
Metabolism	1985	5%	0.0	4.6	3.4	7.2
Metabolism	1985	10%	0.6	8.6	7.1	13.9
Metabolism	1995	1%	0.0	1.1	0.5	1.5
Metabolism	1995	2%	0.2	1.9	1.1	3.0
Metabolism	1995	5%	0.2	4.4	3.3	7.1
Metabolism	1995	10%	0.4	8.6	7.3	13.7
Metabolism	2005	1%	0.2	0.9	0.7	1.3
Metabolism	2005	2%	0.7	1.9	1.5	2.7
Metabolism	2005	5%	2.2	4.3	3.8	6.6
Metabolism	2005	10%	3.3	8.0	8.0	12.6
Applied Physics	1985	1%	0.0	0.4	1.2	1.1
Applied Physics	1985	2%	1.2	0.5	2.4	2.3
Applied Physics	1985	5%	3.5	2.3	5.4	6.1
Applied Physics	1985	10%	5.8	5.5	10.5	12.5
Applied Physics	1995	1%	0.3	0.5	1.2	1.0
Applied Physics	1995	2%	0.3	1.1	2.4	2.0
Applied Physics	1995	5%	1.3	2.7	5.9	5.2
Applied Physics	1995	10%	4.3	6.7	12.2	10.8
Applied Physics	2005	1%	0.5	0.2	1.1	1.2
Applied Physics	2005	2%	0.8	0.4	2.1	2.4
Applied Physics	2005	5%	1.0	1.4	5.3	5.9
Applied Physics	2005	10%	2.8	4.1	10.6	11.6
Web of Science	1985	1%	0.1	0.7	0.9	2.2
Web of Science	1985	2%	0.3	1.5	1.9	4.2
Web of Science	1985	5%	1.0	3.9	4.9	10.0
Web of Science	1985	10%	2.6	8.1	10.1	18.4
Web of Science	1995	1%	0.1	0.8	0.8	1.9
Web of Science	1995	2%	0.3	1.6	1.7	3.7
Web of Science	1995	5%	1.0	4.0	4.7	9.1
Web of Science	1995	10%	2.4	8.0	9.9	17.3
Web of Science	2005	1%	0.2	0.8	0.9	1.7
Web of Science	2005	2%	0.4	1.6	1.9	3.3
Web of Science	2005	5%	1.2	3.9	4.9	8.2
Web of Science	2005	10%	2.8	7.9	10.1	15.5
f publications in the					10.1	5% or 10

The hit rate is the percentage of publications in the referenced category that are in the top 1%, 2%, 5%, or 10% of papers according to citation count (see column 3) for novel articles defined as those with the 1st percentile z-score being negative. This table supplements the data reported in the SI document for novelty defined at the 10th percentile. The z-scores are computed using the local network. The category with the highest percentile is boldfaced (the second highest is also boldfaced if within 0.3% and greater than the overall percentage of articles considered to be hits).

Table S2. Explanatory Power of Novelty and Conventionality

Data Highly Cited Conventionality Novelty				_		D l 1 222	•
Set Year Min. Percentile Low High Low High Immunology 1985 1% 1.000 0.000 0.874 0.414 Immunology 1985 2% 1.000 0.000 0.850 0.416 Immunology 1985 5% 1.000 0.000 0.997 0.267 Immunology 1995 1% 1.000 0.000 0.240 0.583 Immunology 1995 2% 1.000 0.000 0.416 0.532 Immunology 1995 5% 1.000 0.000 0.416 0.532 Immunology 2005 1% 1.000 0.000 0.991 0.391 Immunology 2005 5% 1.000 0.000 0.996 0.325 Immunology 2005 5% 1.000 0.000 1.000 0.000 Immunology 2005 1% 1.000 0.000 0.986 0.365 Metabolism 1985	D. I.		Ultra la La Consta				
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Immunology	Immunology	1985	10%	1.000	0.000	1.000	0.168
Immunology	٠,						
Immunology	Immunology	1995	2%	1.000	0.000	0.416	0.532
Immunology 2005	Immunology	1995	5%	1.000	0.000	0.939	0.379
Immunology 2005 2% 1.000 0.000 0.996 0.325 Immunology 2005 5% 1.000 0.000 1.000 0.260 Immunology 2005 10% 1.000 0.000 1.000 0.195 Metabolism 1985 1% 1.000 0.000 0.865 0.386 Metabolism 1985 2% 1.000 0.000 0.896 0.365 Metabolism 1985 5% 1.000 0.000 0.999 0.194 Metabolism 1985 10% 1.000 0.000 0.999 0.194 Metabolism 1995 1% 1.000 0.000 0.521 0.504 Metabolism 1995 2% 1.000 0.000 0.937 0.367 Metabolism 1995 5% 1.000 0.000 0.937 0.367 Metabolism 1995 5% 1.000 0.000 1.000 0.199 Metabolism 1995 10% 1.000 0.000 1.000 0.084 Metabolism 2005 1% 1.000 0.000 0.841 0.413 Metabolism 2005 2% 1.000 0.000 0.931 0.367 Metabolism 2005 2% 1.000 0.000 1.000 0.183 Metabolism 2005 5% 1.000 0.000 1.000 0.183 Metabolism 2005 5% 1.000 0.000 1.000 0.042 Applied Physics 1985 2% 0.066 0.952 1.000 0.002 0.023 Applied Physics 1985 2% 0.066 0.952 1.000 0.003 Applied Physics 1985 1% 0.062 0.955 0.999 0.113 Applied Physics 1995 5% 0.002 0.999 0.103 Applied Physics 1995 5% 0.002 0.999 0.103 Applied Physics 1995 5% 0.002 0.999 0.100 0.002 Applied Physics 2005 5% 0.118 0.988 1.000 0.002 Applied Physics 2005 5% 0.117 0.897 1.000 0.002 Applied Physics 2005 5% 0.117 0.897 1.000 0.002 Applied Physics 2005 5% 0.117 0.897 1.000 0.000 0.000 Meb of Science 1985 10% 1.000 0.000 1.000 0.000 Meb of Science 1985 1% 1.000 0.000 1.000 0.000 Meb of Science 1985 1% 1.000 0.000 1.000 0.000 Meb of Science 1985 1% 1.000 0.000 1.000 0.000 Meb of Science 1985 2% 1.000 0.000 1.000 0.000 Meb of Science 1985 10% 1.000 0.000 1.000 0.000 Meb of Science 1995 5% 1.000 0.000 1.000 0.000 Meb of Science 1995	Immunology	1995	10%	1.000	0.000	1.000	0.245
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Immunology	Immunology	2005	2%	1.000	0.000	0.996	0.325
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This table lists p-values in the form of cumulative right-hand tail probabilities for the observed number of hits in the Low Novelty, High Novelty, Low Conventionality, and High Conventionality categories under the sampling distribution generated by the null hypothesis of a random distribution of hit articles in proportion to the number of articles in each of the categories. A small p-value, therefore, indicates a number of hits that exceeds the expected number. Results that indicate statistically significant numbers of hits in excess of the expected number at the 0.05 level using a two-tailed test are highlighted in bold font, and those significant at the 0.10 level are italicized. These data are for the circumstances where novel citation patterns are defined by whether an article's 1st percentile z-score is negative, whereas the data for novelty being defined at the 10th percentile is included in the SI document. The z-scores are computed using the local network.